COLOR LCD SOUNDER

FCV-295

SPECIFICATIONS OF FCV-295

GENERAL

1. Operating Frequencies
The synthesized transceiver works with dual frequencies in 28 to 200 kHz. Specify transducer type when ordering, among 28/38/50/68/82/88/107/150/200 kHz

2. Output Power 1/2/3 kW

3. Power Reduction Auto/10 to 100% (in 10% step)

4. Tx Rate 20 to 3000/min

5. Pulselength Short1/Short2/Standard/Long/Manual (Manual Pulselength: 0.1 to 5.0 ms)

6. RX Band Narrow/Standard/Wide

7. Amplifier High dynamic range

DISPLAY

1. Display 10.4" color LCD (VGA: 640 x 480)

2. Color 8/16/64

3. Brightness 450 cd/m^2

4. Ranges 5 to 3000 m (Split Range available)

5. Shift 0 to 2000 m

6. Marker Zoom/Bottom-lock Expansion Ranges
5 to 2000 m

7. Display mode Single (HF/LF), Dual, Single + Zoom, two Custom Modes
Zoom Mode (Bottom Lock, Bottom Zoom, Marker Zoom), Mix Mode, Nav data, A-scope

8. Picture Advance Direction
Left, Right, L/R

9. Picture Advance Speed
Stop, 1/16, 1/8, 1/4, 1/2, 1/1, 2/1, 4/1, Synchronized with own ship speed

10.Alarms Audio-visual alarms for a preset depth of water, fish and a preset value of water temperature

11.Language English, French, Spanish, German, Italian, Portuguese, Swedish, Danish, Norwegian, Finish, Greek, Chinese, Japanese, Thai, Korean, Russian

12.Others Auto Mode, Interference, Clutter, TVG, Color Erase, Hue, Temp Graph, A-scope, White Marker

DATA INTERFACE

NMEA0183 (Ver. 1.5, 2.0 or 3.0; Any talker)

Input: BWC, GGA, GLC, GLL, GNS, GTD, HDG, HDT, MDA, MTW, MWV, RMA, RMB, RMC, VHW, VTG, XTE

Output: DBT, DPT, MTW, TLL, SDmrk, VHW, RMB, dat

ENVIRONMENTAL CONDITIONS

Display Unit: -15 ºC to +55 ºC (IEC60945 tested)

Water Resistance: IP55 (When flush mounted)

POWER SUPPLY

12-24 VDC, 45 W max. 100/110/220/230 VAC with optional rectifier

EQUIPMENT LIST

Standard

1. Display Unit
2. Installation Materials and Standard Spare Parts

Option

1. Speed/temperature sensor
   ST-02MSB (Thru-hull, bronze), ST-02PSB (Thru-hull, plastic)
2. Temperature sensor
   T-02MSB (Thru-hull, bronze), T-02MTB (Transom, bronze), T-03MSB (Thru-hull, bronze)
3. NMEA cable MJ-A6SPF0003-050C (5 m)
   CO-SPEVV-SB-C 2P x 0.2SQLF (5/10/15 m)
4. Rectifier PR-62
5. Transducer (Specify the frequency and type of transducer)

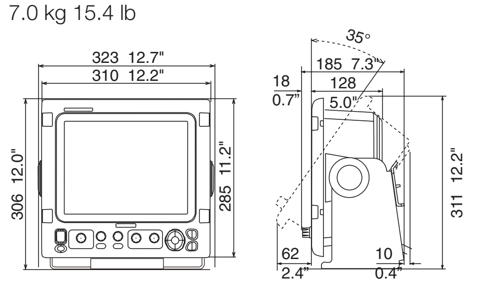
1 kW: 28F-8 (28 kHz), 50B-6/6B (50 kHz), 50B-9B (50 kHz), 68F-8H (68 kHz), 88B-8 (88kHz), 200B-5S (200 kHz), 50/200-1T (50/200 kHz), 50/200-12M (50/200 kHz)

2 kW: 28F-18 (28 kHz), 28BL-6HR (28 kHz), 38BL-9HR (38 kHz), 50B-12 (50 kHz), 50BL-12/12HR (50 kHz), 82B-35R (66-209 kHz), 88B-10 (88 kHz), 200B-8/8B (200 kHz)

3 kW: 28F-24H (28 kHz), 28BL-12HR (28 kHz), 38BL-15HR (38 kHz), 50F-24H (50 kHz), 50BL-24H/24HR (50 kHz), 68F-30H (68 kHz), 88F-126H (88 kHz), 100B-10R (100 kHz), 150B-12H (150 kHz), 200B-12H (200 kHz)

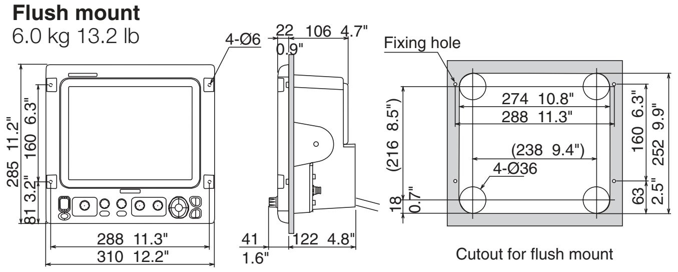
DISPLAY UNIT FCV-295

7.0 kg 15.4 lb



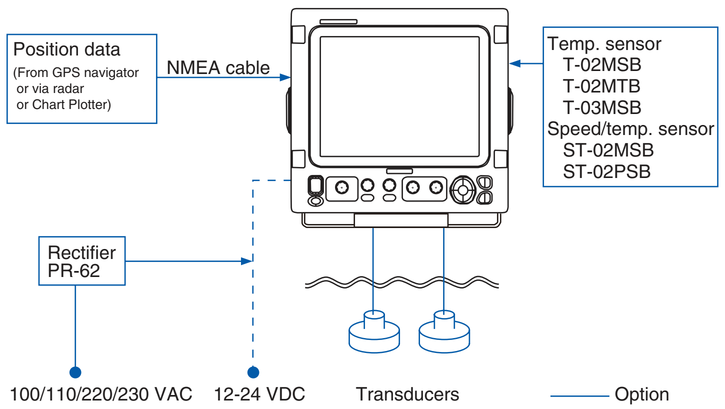
Flush mount

6.0 kg 13.2 lb



Cutout for flush mount

INTERCONNECTION DIAGRAM



TRADEMARK REGISTERED

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

FURUNO ELECTRIC CO., LTD.
Nishinomiya, Hyogo, Japan
Phone: +81 (0)798 65-2111
Fax: +81 (0)798 65-4200, 66-4622

FURUNO U.S.A., INC.
Camas, Washington, U.S.A.
Phone: +1 360-834-9300
Fax: +1 360-834-9400

FURUNO (UK) LIMITED
Havant, Hampshire, U.K.
Phone: +44 23 9244 1000
Fax: +44 23 9248 4316

FURUNO FRANCE S.A.S.
Bordeaux-Mérignac, France
Phone: +33 5 56 13 48 00
Fax: +33 5 56 13 48 01

FURUNO ESPAÑA S.A.
Madrid, Spain
Phone: +34 91-725-90-88
Fax: +34 91-725-98-97

FURUNO DANMARK AS
Hvidovre, Denmark
Phone: +45 36 77 45 00
Fax: +45 36 77 45 01

FURUNO NORGE A/S
Ålesund, Norway
Phone: +47 70 102950
Fax: +47 70 102951

FURUNO SVERIGE AB
Västra Frölunda, Sweden
Phone: +46 31-7098940
Fax: +46 31-497093

FURUNO FINLAND OY
Espoo, Finland
Phone: +358 9 4355 670
Fax: +358 9 4355 6710

FURUNO POLSKA Sp. Z o.o.
Gdynia, Poland
Phone: +48 58 669 02 20
Fax: +48 58 669 02 21

FURUNO DEUTSCHLAND GmbH
Rellingen, Germany
Phone: +49 4101 838 0
Fax: +49 4101 838 111

LLC "FURUNO EURUS"
St. Petersburg, Russian Federation
Phone: +7 812 767 15 92
Fax: +7 812 766 55 52

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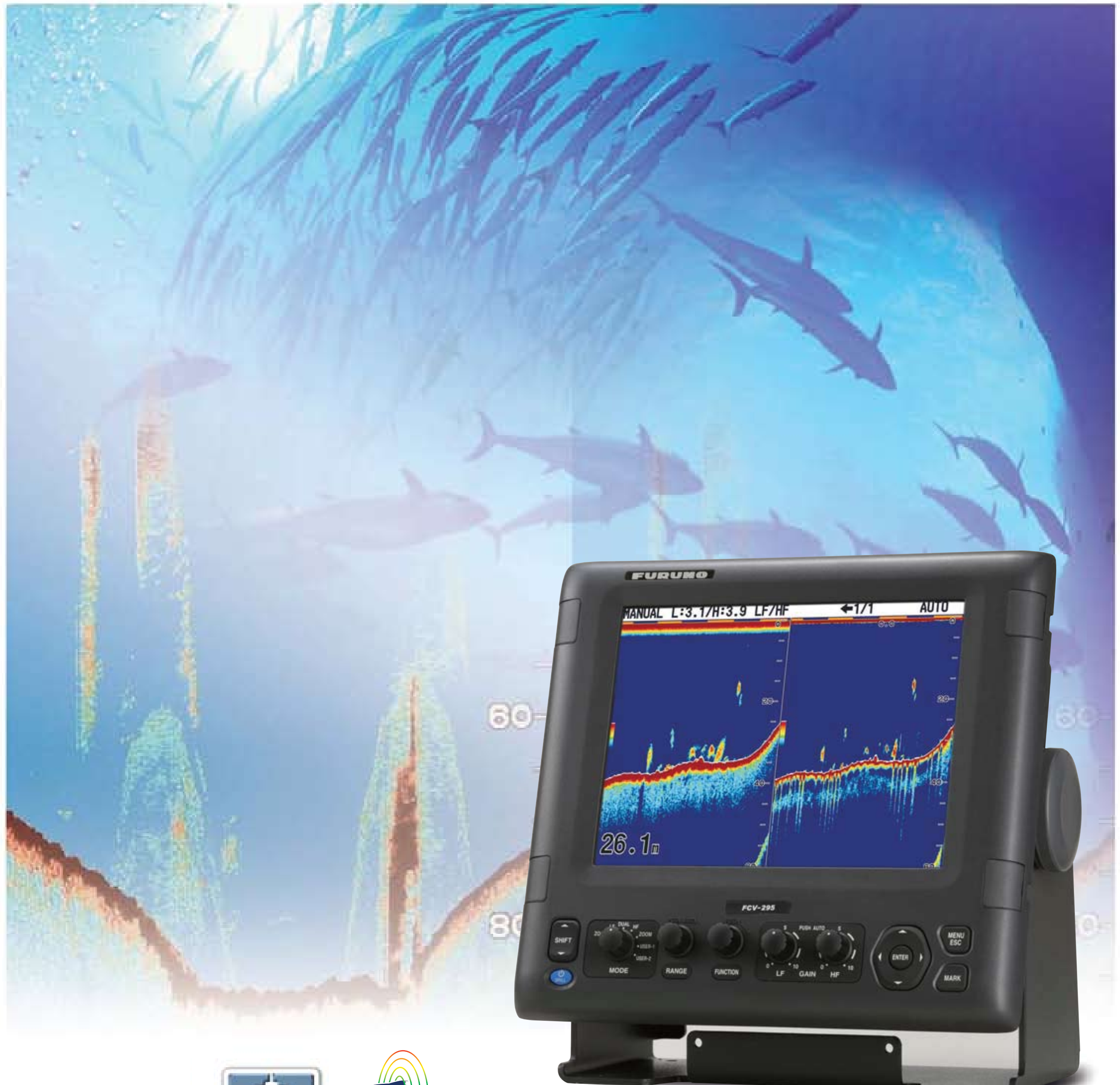
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Catalogue No. E-405

FURUNO World Wide Warranty 2 YEARS

FURUNO

COLOR LCD SOUNDER

FCV-295



FFS
FURUNO Free Synthesizer Transceiver

FDF
FURUNO Digital Filter

www.furuno.co.jp

New digital fish finder delivers crystal clear image of fish targets and bottom structure



COLOR LCD SOUNDER

FCV-295

The FCV-295 is a new color digital sounder designed for a variety of professional fishing operations. It features a bonded 10.4" LCD display providing superior viewing even in direct sunlight. You can display echoes in 8, 16, or 64 colors, with color assignment dependent on the strength of the returned echo.

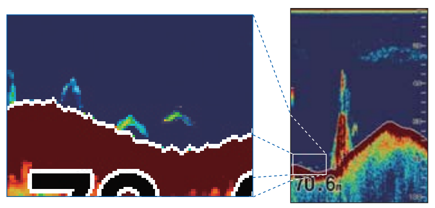
The FURUNO Free Synthesizer (FFS) Transceiver allows a wide selection of operating frequencies. You may choose any two frequencies between 28 and 200 kHz to fit your fishing operation. Output power is selectable from 1, 2 or 3 kW. A wide variety of display modes and functions are available, which provide skippers with simple and intuitive information.

- 10.4" color LCD provides clear view in any weather conditions
- Post-processing gain control applies to all existing returns on the display
- White Edge function trace the bottom contour with a thin white line
- FURUNO Digital Filter delivers crystal clear target presentation
- FURUNO Free Synthesizer transceiver allows adjustable operating frequency

FURUNO Digital Filter

FDF
FURUNO Digital Filter

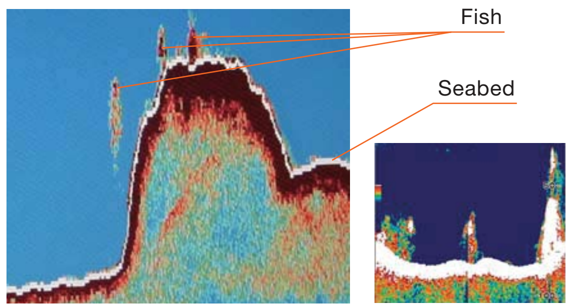
FURUNO digital filter optimizes the gain to obtain highly defined images of underwater conditions. The FCV-295 can clearly show target fish close to the seabed. The digital filter also eliminates noise to deliver sharp and detailed echo presentation, achieving detection of fishing reef and even individual fish with absolute clarity.



Fish targets close to the seabed

White Edge

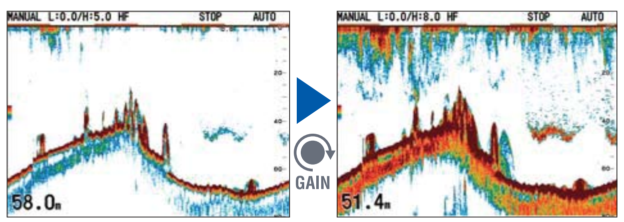
The top of the seabed is displayed in white to easily discern seabed structure from bottom fish returns. While conventional bottom discrimination function called "White Line" applies also to the strongest echoes, the White Edge function enhances the discrimination of bottom fish and seabed by painting a very thin line above the bottom contour regardless of gain setting or display color.



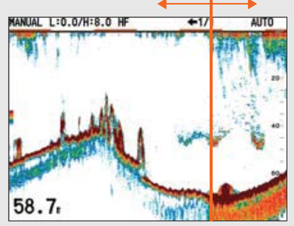
White Edge   White Line

Quick Gain Control

With the FCV-295's Quick Gain control, changes in the Gain setting are applied to not only to new echoes, but to all past echoes on the screen. You can compare the past and current echoes under same gain setting. Because the changes are applied to both new and existing returns, you will be able to quickly and easily find the right Gain setting for your conditions.



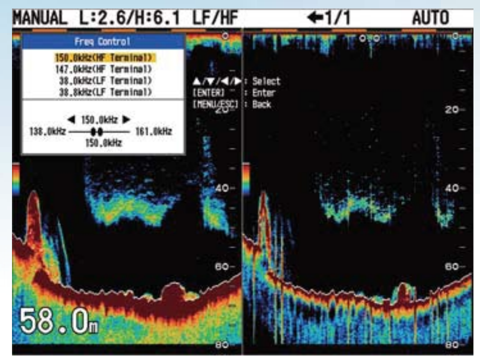
Gain: 5   Gain: 8



With conventional gain controls, changes are made for new echoes only when the gain setting is changed.

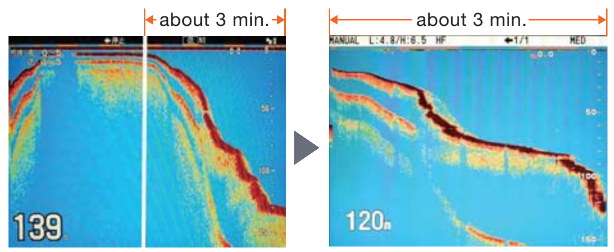
Operating Frequency Adjustment

When FURUNO transducers are connected and set to the FCV-295, the operating frequency range will be registered and shown in the menu. The user can shift the operating frequency freely between the ranges at any time from the menu. With the FURUNO 82B-35R transducer, the operator can select any operating frequency from 66 to 109 kHz. This feature is particularly useful for vessels targeting many different species, or when the fish finders of other ships in the area cause interference.



Faster Transmission Rate For Detailed Detection

The rate of transmission is increased by more than 30% compared to conventional fish finders. As the result, more detailed information about underwater conditions can be gained through the same sounding interval. With the FCV-295' s AUTO transmission function, the rate is automatically raised in shallow waters and lowered in deep waters, which provides for detailed detection of seabed targets.



conventional fish finder   FCV-295

Function Key

An often-used function such as TVG (Time Varied Gain) can be programmed and made available with the press of the Function key. This will give you access to any menu item without opening the menu.



Functions which can be registered

Pic. Advance / Interference / Color Erase / Clutter / White Line / White Marker / TVG / STC / Bottom Zone / A-Scope / Split Range / Auto Shift / Freq Choice / Freq Control